

## NASA Glenn Research Center 2011 – 2012 High School Shadowing Project

#### **Program Description**

The High School Shadowing Project provides high school students with a career exploration experience for 1 day or up to 10 days (i.e., junior/senior projects) at the NASA John H. Glenn Research Center (GRC). Opportunities are available during the school year for students interested in science, technology, engineering, mathematics, and professional administration. This project is sponsored by the Educational Programs Office.

#### **Program Goal**

Shadowing provides high school students with an opportunity to explore career possibilities in a research and development environment while under the guidance of a GRC scientist, engineer, technician, or administrative professional that serves as the student's mentor. Students are provided with information about various careers, career paths, and GRC educational resources and programs.

Students will depart from GRC with knowledge that will be of value to them in career decision making and an awareness of additional educational opportunities and resources at GRC.

#### **Glenn Research Center**

The NASA Vision—To improve life here, to extend life to there, to find life beyond. The NASA Mission—To pioneer the future in space exploration, scientific discovery, and aeronautics research. As one of NASA's 10 field centers, the John H. Glenn Research Center at Lewis Field supports all NASA missions and the major programs of our Agency.

GRC works as a diverse team in partnership with government, industry, and academia to increase national wealth, safety, security, protect the environment, and explore the universe. GRC is distinguished by its unique blend of aeronautics and spaceflight experience. As we move toward a greater focus on spaceflight hardware development, we are benefiting from our various accomplishments and expertise in aeronautics. Our work is focused on technological advancements in spaceflight systems development, aeropropulsion, space propulsion, power systems, nuclear systems, communication, and human research.

GRC is located in the Great Lakes region of Ohio and occupies a 350-acre site adjacent to Cleveland Hopkins International Airport. The Center comprises over 150 buildings that contain a unique collection of world-class facilities. NASA GRC also includes the 6400-acre Plum Brook Station near Sandusky, Ohio.

You are encouraged to visit the GRC home page to learn more about our research activities and programs at http://www.nasa.gov/centers/glenn/home/index.html.

#### **Eligibility Requirements**

Applicants must be **U.S. citizens**, a high school student, and at least <u>16 years of age</u>. Students who are interested in science, technology, engineering, and mathematics and professional administration fields are eligible. Students must be recommended for a shadowing experience by a science, technology, or mathematics teacher to participate.

#### **Program Requirements**

Students typically shadow for 1 day. Junior or senior project shadowing opportunities (up to 10 days) are very **limited** as the mentor pool has been impacted by budget constraints and organizational changes (refer to "Junior/Senior Projects" on next page).

Students must agree to complete the shadowing experience between the hours of 9 a.m. and 4 p.m. Students who are participating in longer formal school career programs (up to 10 days) must be available every business day on a full-time basis for the duration of their project. Students are required to adhere to all NASA safety, security, and program guidelines.

Prior to departure from NASA, all students **must** complete several Shadowing evaluations. Completion of the evaluations is a project requirement as feedback is vital to the success of our programs.

#### **Junior/Senior Projects**

Long-term projects are limited to up to 10 days (2 weeks) and are dependent upon the mentors' availability. All long-term project applicants will be accepted under the following conditions:

- 1. There is an employee in the mentor pool interested in mentoring a long-term project student in your area of interest or you already have identified a NASA employee on your application who will serve as your mentor.
- 2. Student agrees to provide project forms and coordinate project with mentor prior to arrival. Not providing papers in a timely manner could jeopardize a scheduled junior/senior project experience as mentors need time to prepare for students and respond to school guidelines.
- 3. Student must indicate on the application if they would be interested in a 1-week shadowing experience if GRC is unable to support their entire long-term project request.
- 4. Travel and lodging expenses are at the student/family's expense. Lodging information can be provided upon request.

#### **Application**

Students must complete and return the attached application and forms of the entire application packet. Applications can be obtained at the following Web site: www.nasa.gov/centers/glenn/education/ShadowingProgram\_GRC.html. Applications must be postmarked or date-stamped by our office no later than the deadline dates. Incomplete applications will not be processed. Placements **cannot** be made without the signature of a parent or guardian (if applicable) and recommending science, technology, or mathematics teacher. Return all forms to

NASA Glenn Research Center Educational Programs Office Attn: Shadowing Project, Mail Stop 7–4 21000 Brookpark Road Cleveland, OH 44135–3191

#### **Selection Process**

Student requests will be accepted on a first-come, first-served basis. Application packet must be complete for consideration.

Shadowing placements are dependent upon the availability of appropriate GRC mentors and facilities. The Educational Programs Office cannot guarantee a shadowing experience and will not sign any forms that state a shadowing experience is guaranteed. Each session has limited placement.

#### **Notification**

Students will be contacted to confirm their availability. An official notification (i.e., selectee, nonselectee, or ineligible) will be sent to the student, parent/guardian, and guidance counselor e-mail account noted on the student's application by the appropriate notification date noted below. If a student/parent/guardian has not included an e-mail address on their application, then official notification will be mailed to the student's home address.

Students should notify the NASA Glenn Educational Programs Office (EPO) by phone, 216–433–6656 or via e-mail, intern@grc.nasa.gov, if their e-mail, phone (home/cell), or home address changes. Students should also call or e-mail when inquiring about the status of their application or to obtain additional information.

#### **Schedule**

<u>Session</u>	Application Deadline	Selection Notification Date
I		
December 6, 2011	November 10, 2011	November 22, 2011
II		
February 29, 2012	January 27, 2012	February 15, 2012
III		
March 27, 2012	January 27, 2012	March 9, 2012
IV		
April 25, 2012	January 27, 2012	April 6, 2012

# 2011 – 2012 Shadowing Project Student Application Form

## **Educational Programs Office**

Please type or print in black ink only.

Full le	egal na	ame				Date of b	oirth		
	0	Last name, suffix (e.g., Jr.)	First name	Mi	ddle na	me	mm a	ld year (e.g., 11)	/14/1992)
Place	of bir	th City, State, Country				Gender:	☐ Male	☐ Female	
U.S. C Note: Ij provid	Citizen f U.S. ca e docua	☐ Yes ☐ No  itizen and born outside the United Sta  mentation prior to start date for accep  on no.	ites or Puerto Rico, y otance to be finalize	vou <b>mu</b> vd.	s <b>t</b> pro	vide the information	•	v	·
Naturalization no Date issued Date expired Passport no Date issued Date expired									
		·		13340	u		Date CA	pired	
You N	Must 1	Provide Both Addresses:							
Perma	anent	(home) address				School name			
			<del>_</del>			School address _	If homeschool	led, write "bomesc	booled"
City			ovide your 9-digit ZIP /zip4.usps.com/zip4/u						
Telep	hone :	no. ( )				City S	tate		ZIP Code
C 11	(	`				-			
Cell n		)				School telephone	e no. (	)	
		student e-mail address parent/guardian e-mail address							
		guidance counselor e-mail addr							
Cumu	lative	GPA = (on a 4.0 scale)				Academic level a	s of Fall 2	2012:	
						☐ HS Sophomore ☐ HS Senior		HS Junior College Fre	shman
Have	vou n	reviously applied for or particip	pated in a NASA	nrogra	ւաշ 🗆	Yes □ No			
Tiave	уой р	reviously applied for or particip	pated in a tyrion	progra		163 2110			
		of the following NASA programs y	- i			or (A) or participate	ed in (P) a	and indicate	
(A)	(P)		Year	(A)	(P)				Year
		FIRST							
		GRC Exploring Program				INSPIRE			
		GRC LERCIP High School				NES (NASA Expl School Name			
		GRC N.A.S.A. Project				SEMAA			·
	_				_	Site Name			-
		GRC Shadowing Project				Other			
			Office t	ıse onlv					
Date re	eceived		Date processed			Init	ials		

Duration of shadowing experience you are requesting:	
☐ 1 day (9 a.m. to 4 p.m.) ☐ Long term (i.e., Jur	nior/Senior projects)
☐ Check here if willing to accept 1 week if unable to accomm	modate 2 weeks
1 day—Check the session you wish to shadow at NASA GRC.  ☐ Session I (December 6, 2011) ☐ Session II (February 29, 2012)	
Long-Term Junior/Senior Project Students—Indicate prefe	erred month(s) below and any specified dates for project.
Please note, accommodations are dependent upon mentor's a	availability.
Do you know someone at NASA GRC who would be willing $\hfill\Box$ Yes $\hfill\Box$ No $\hfill Name of employee$	to be your mentor?  ( )  Employee phone number
If yes, has this employee <b>verbally committed</b> to mentoring your Yes □ No Comments	
Name and signature of recommending science, technology, or Print name	Signature
Position School telephone ( ) ext Alternate telephone ( ) E-mail address Please note that additional comments or letters of recommendation are not needed.	Are you interested in:  Infusing NASA education content into the current curriculum  Developing Project-Based learning units  Attending a free Professional Development Workshop at NASA GRC and tour its facilities next summer (dependent upon teacher interest)  Using NASA Explorer schools to extend the current classroom and after school curriculum
How did you learn about the program?  ☐ Faculty member or school official ☐ Group visit to GRC ☐ Inquiry to NASA about summer opportunities ☐ NASA Web site ☐ GRC Educational Programs staff ☐ GRC Educational Programs Web site ☐ Other (please specify)	Do you have a relative who works for ☐ NASA or ☐ NASA contractor  Name/Relationship  Company name/Area/Organization

### 2011 – 2012 High School Shadowing Project

## **Student Certification**

I certify, by my signature below, that I am a citizen of the United States of America and that all information contained in this application is accurate and correct. I further understand and agree that any misrepresentation or inaccurate information reported on my application will be cause for disqualification for consideration and from participation in the Shadowing Project and other NASA programs.

If selected to participate, I understand I must participate for the entire time allocated and failure to do so or abide by the program safety and security policies and procedures.

Print your full name below and sign and date for acceptance—the signature of a parent or guardian is only required if student is under 18 years of age.

Student	Parent/Guardian		
Print name	Print name		
Signature	Signature		
Date	Date		
	Telephone number where you can be reached during the day		
The following are the areas that mentors are available following are the areas that mentors are available following mark with an "X" the area in which you would hote: There are no shadowing opportunities in medicing	like to shadow. Please only mark one box.		
Note. There are no shadowing opportunities in medicin			

<b>Student Narrative</b> Write a brief narrative elaborating on some of your goals for the next 2 years. List any classes you have taken, or are currently taking, that are conclusive to your shadowing experience (i.e., math, science, computer, business, etc.). Also state the benefits you expect to gain from your experience.					

#### 2011 – 2012 High School Shadowing Project

#### **Release Form**

(Completion of form is required for processing of application.)

### For appearance in photographs or other image-based media or production by or for NASA

John H. Glenn Research Center at Lewis Field National Aeronautics and Space Administration 21000 Brookpark Road Cleveland, OH 44135–3191

Glenn Educational Programs Office Workshop/Activity/Event. 2011-2012 Shadowing Project

To the United States Government, NASA, the Glenn Research Center, its contractors, partners, or those acting with its authority and permission and employees of the United States Government, NASA, the Glenn Research Center, its contractors, partners, or those acting with its authority and permission I hereby

- a. grant the unrestricted right and permission to copyright and use, re-use, publish, and re-publish photographic or digital images of me or in which I may be included intact or in part, composite or distorted in character or form, without restriction as to changes or transformations in conjunction with my own or a fictitious name, or reproduction hereof in color or otherwise, made through any and all media now or hereafter known for illustration, art, promotion, advertising, trade, or any other purpose whatsoever.
- b. permit the use of any printed material in connection herewith.
- c. release, discharge, and agree to save harmless from any liability by virtue of any blurring, distortion, alteration, optical illusion, or use in composite form whether intentional or otherwise, that may occur or be produced in the taking of said picture or in any subsequent processing thereof, as well as any publication thereof, including without limitations any claims for libel or invasion of privacy.
- d. affirm that I am over the age of 18 and have the right to contract in my own name. I have read the above authorization, release, and agreement, prior to its execution; I fully understand the contents thereof. This agreement shall be binding upon me and my heirs, legal representatives, and assigns. Additional information is required—see bottom three lines.

e.  $\square$  affirm that I am the parent or legal guardian for

or

Name of the minor subject(s) depicted in the photographs or digital images

and have the right to contract for him/her. I have read the above authorization, release, and agreement, prior to its execution; I fully understand the contents thereof. This agreement shall be binding upon me and my heirs, legal representatives, and assigns and those of the subject(s) listed above. **Parental/guardian information is required below.** 

Printed name	Address		
Signature	City	State	ZIP Code
Date	( )		

# **Emergency Medical Authorization** (Completion of form is required for processing of application.) **NASA Glenn Research Center** FULL LEGAL NAME OF STUDENT (Last, suffix (e.g., Jr.), first, middle initial) IS STUDENT UNDER 18? DATE OF BIRTH YES NO ADDRESS HOME TELEPHONE NUMBER EMERGENCY CONTACT (Please include name and relationship and home, work, and cell phone numbers.) ALTERNATE EMERGENCY CONTACT (Please include name and relationship and home, work, and cell phone numbers.) Facts concerning the student's medical history to which the medical practitioner should be alerted. Submission of this information is VOLUNTARY and will remain strictly confidential; however, it would be helpful in time of an emergency medical situation. ALLERGIES CURRENT MEDICATIONS RESTRICTIONS TO ANY ACTIVITIES? PAST MEDICAL/SURGICAL HISTORY LAST TETANUS/DIPHTHERIA IMMUNIZATION MEDICAL INSURANCE INFORMATION OR SUBMIT COPY OF CARD INSURANCE COMPANY NAME: **GROUP NUMBER:** ID NUMBER: POLICYHOLDER NAME: In the event that reasonable attempts to contact one of the parents of, or the legal guardian of, the above minor are not successful, I hereby give my consent to the administration of medical treatment deemed necessary by the Medical Services Office at the NASA Glenn Research Center. In the event that more extensive medical care is necessary than that given by the Glenn Medical Services Office, I authorize the transfer of the minor to a local hospital by ambulance. SIGNATURE OF PARENT/GUARDIAN DATE

NASA C-10039 (SEP 11)

# **Student Information**

Name (print):	
Program you are applying for: 2011 – 2012 Shace	lowing Project
	of each ethnic and racial group are reached by this announcement, te block(s) below. Submission of this information is <b>VOLUNTARY</b> .
	vailable to those responsible for reviewing applications, but will be hich various populations are represented in the applicant pool. This
Please complete and return with application materia	ls.
What is your ethnicity? (check one)	Individual with a disability (check one or more)
☐ Do not wish to provide	☐ Hearing impairment
☐ Hispanic or Latino	☐ Visual impairment
☐ Not Hispanic or Latino	☐ Mobility/orthopedic impairment
What is your race? (check one or more)	☐ Other
☐ American Indian or Alaska Native	☐ None
☐ Asian	☐ Do not wish to provide
☐ Black or African-American	Please list any special accommodations required:
☐ Native Hawaiian or other Pacific Islander	
☐ White	
☐ Some other race	
☐ Do not wish to provide	